






Flow machine with rotor and stator**Publication number:** DE19807247**Publication date:** 1999-09-09**Inventor:** KLINGELS HERMANN (DE)**Applicant:** MOTOREN TURBINEN UNION (DE)**Classification:****- International:** *F01D9/04; F01D11/08; F01D25/24; F01D9/04; F01D11/08; F01D25/24; (IPC1-7): F01D9/04; F01D11/02; F01D11/24; F02C7/12; F02C7/28***- european:** F01D9/04C; F01D11/08; F01D25/24C**Application number:** DE19981007247 19980220**Priority number(s):** DE19981007247 19980220**Also published as:**

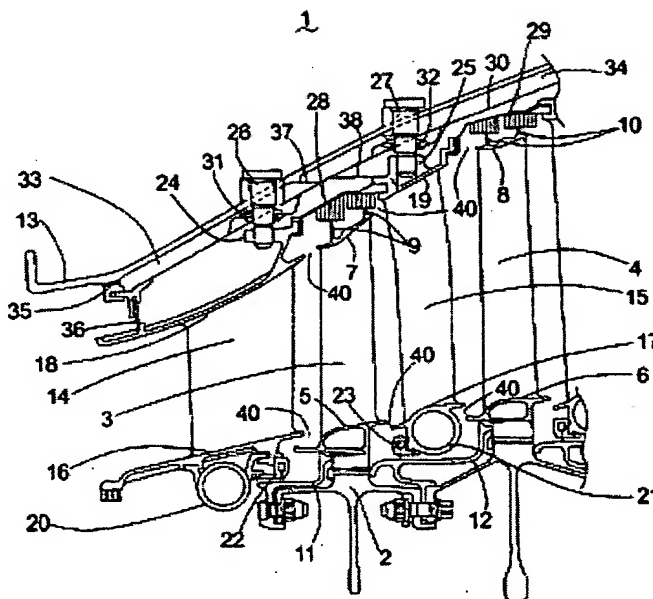
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A flow machine with rotor and stator in axial structure in flow-oriented terms, at least in sections, having moving blades at the rotor and housing-fixed guide vanes, whereby the latter are arranged as at least one guide vane ring with an inner and an outer cover band. The at least one guide vane ring is implemented as self-bearing component part having a closed reinforcement at the inner cover band that reinforces the component part to resist jamming axial deformation, comprises a segmented outer cover band and is positioned in the housing over at least three cover band segments with bearing units that respectively allow radial relative movements. An air guide shell that guides a cooling air stream along the inside of the housing and is provided with openings for the housing-fixed bearing elements of the at least one guide vane ring is arranged between the housing and the outer cover band of the at least one guide vane ring.



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